

CLAIMS

1. A transmitter for transmitting video data and/or audio data to a receiver, the transmitter comprising:

reception means for receiving, from the receiver, reception data containing information indicative of a communication condition detected at the receiver; and

transmission rate setting means for setting a transmission rate of the video data and/or audio data to be transmitted, according to the reception data.

2. The transmitter according to Claim 1, wherein:

the video data and/or audio data to be transmitted has a plurality of content types, and

the transmission rate setting means sets the transmission rate of the video data and/or audio data to be transmitted, according to each of the content types.

3. The transmitter according to Claim 2, wherein the transmission rate setting means sets a bit rate and/or a maximum number of times of retransmission for each of the content types.

4. The transmitter according to Claim 2 or 3, comprising content identification means for identifying the content type of the video data and/or audio data to be

transmitted.

5. The transmitter according to Claim 4, wherein the content identification means identifies the content type of the video data and/or audio data to be transmitted, according to program-related information such as EPG (Electrical Program Guide).

6. The transmitter according to Claim 4, wherein the content identification means identifies the content type of the video data and/or audio data to be transmitted, according to information on an intra-frame frequency component of the video data and an inter-frame degree of change of the video data.

7. The transmitter according to any one of Claims 1 to 6, wherein the video data and/or audio data is transmitted according to a spread spectrum wireless method.

8. The transmitter according to any one of Claims 1 to 7, wherein the video data and/or audio data is transmitted by means of a wireless LAN or a low-power short-range two-way wireless communications technology such as Bluetooth or UWB (Ultra Wide Band).

9. The transmitter according to any one of Claims 1 to 8, wherein the video data and/or audio data is transmitted in a form of an MPEG stream encoded in conformity with an MPEG encoding method.

10. The transmitter according to any one of Claims 1 to 9, wherein the video data and/or audio data is inputted from a broadcast receiving tuner.

11. A receiver for receiving video data and/or audio data from a transmitter, the receiver comprising:

communication condition detection means for detecting a communication condition; and

transmission means for transmitting, to the transmitter, transmission data containing information indicative of the communication condition detected by the communication condition detection means.

12. The receiver according to Claim 11, wherein the communication condition detection means detects the communication condition according to at least one of (i) an electric field intensity of a received radio wave, (ii) an error rate, and (iii) a number of times of retransmission request made based on the error rate.

13. The receiver according to Claim 11 or 12, wherein the communication condition detection means detects the communication condition with the transmitter, with which a communications link is established.

14. The receiver according to any one of Claims 11 to 13, comprising a display device for displaying a video signal according to the received video data.

15. A wireless system comprising:
the transmitter according to any one of Claims 1 to 10; and
the receiver according to any one of Claims 11 to 14.

16. A transmitter control method for controlling a transmitter which transmits video data and/or audio data to a receiver, the method comprising the steps of:
receiving, from the receiver, reception data containing information indicative of a communication condition detected at the receiver; and
setting a transmission rate of the video data and/or audio data to be transmitted, according to the reception data.

17. A method for controlling a receiver which

receives video data and/or audio data from a transmitter, the method comprising the steps of:

detecting a communication condition; and
transmitting, to the transmitter, transmission data containing information indicative of the communication condition thus detected.

18. A transmitter for transmitting, to a receiver, video data and/or audio data having a plurality of content types, the transmitter comprising:

content identification means for identifying each of the content types of the video data and/or audio data to be transmitted, according to information on an intra-frame frequency component of the video data and an inter-frame degree of change of the video data; and

transmission rate setting means for setting a transmission rate of the video data and/or audio data to be transmitted, according to the content type.

19. A method for controlling a transmitter which transmits, to a receiver, video data and/or audio data having a plurality of content types, the method comprising the steps of:

identifying each of the content types of the video data and/or audio data to be transmitted, according to

information on an intra-frame frequency component of the video data and an inter-frame degree of change of the video data; and

setting a transmission rate of the video data and/or audio data to be transmitted, according to the content type.

20. A transmitter for transmitting, to a receiver, video data and/or audio data having a plurality of content types, the transmitter comprising:

content identification means for identifying each of the content types of the video data and/or audio data to be transmitted, according to information on an intra-frame frequency component of the video data and an inter-frame degree of change of the video data;

content information addition means for adding, to the video data and/or audio data to be transmitted, content information indicative of the content type of the video data and/or audio data;

reception means for receiving, from the receiver, reception data containing information indicative of a transmission rate determined at the receiver; and

transmission rate setting means for setting the transmission rate of the video data and/or audio data to be transmitted, according to the reception data.

21. A method for controlling a transmitter which transmits, to a receiver, video data and/or audio data having a plurality of content types, the method comprising the steps of:

identifying each of the content types of the video data and/or audio data to be transmitted, according to information on an intra-frame frequency component of the video data and an inter-frame degree of change of the video data;

adding, to the video data and/or audio data to be transmitted, content information indicative of the content type of the video data and/or audio data;

receiving, from the receiver, reception data containing information indicative of a transmission rate determined at the receiver; and

setting the transmission rate of the video data and/or audio data to be transmitted, according to the reception data.

22. A program for controlling the transmitter according to any one of Claims 1 to 10, 18, and 20, the program causing a computer to serve as each of the means.

23. A computer-readable storage medium, storing the

transmitter control program according to Claim 22.

24. A for controlling the receiver according to any one of Claims 11 to 14, the causing a computer to serve as each of the means.

25. A computer-readable storage medium storing the receiver control program according to Claim 24.